

- Magnetic field sensor
- Normally open (NO)



General attributes

Approvals / Conformity	CE cULus Ecolab
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP69K
Function indicator	no
Polarity reversal protected	yes
Short circuit protected	yes

Electrical attributes

Assured switching field strength	2.0 kA/m
Connection type	Connector
Eff. operating current I _e	200 mA
Eff. operating voltage U _e DC	24.0 V
Electrical version	DC, direct current
Hysteresis H max. (in % of H _n)	45 %
Load capacitance max. (at U _e)	1.00 µF
Max. no-load cur. I _o undamped	10.0 mA
No-load current I _o damped max.	15.0 mA
Operating voltage U _B max. DC [V]	30.0 V
Operating voltage U _B min. DC [V]	10.0 V
Rated insulation voltage U _i	75 DC
Rated short circuit current	100 A
Rated switching field strength	1.2 kA/m

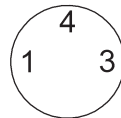
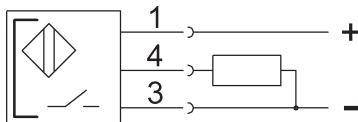
Ripple max. (% of U _e)	15 %
Switching freq. f max. (at U _e)	10000 Hz
Switching function	Normally open (NO)
Switching output	PNP
Turn on time t _{on} max.	0.05 ms
Voltage drop static max.	3.1 V

Mechanical attributes

Ambient temperature T _a max.	85 °C
Ambient temperature T _a min.	-40 °C
Connector type	M08x1-S49
Depth	32.00 mm
Diameter d1	D10.0
Housing material	1.4571
Mounting length	25.0 mm
Sensing face material	1.4571
Temperature drift max. % of H _n	0.3 %

Additional text

The sensor is functional again after the overload has been eliminated. The switching distance depends on the magnet used. Switching distances of > 20 mm can be achieved.
EMC: External protection circuit required, see instruction for EMC protection circuit 825345.



Magnetic field sensor

BMF 10E-PS-D-2-SA1-S49
BMF001Z

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